

Patent Abstracts of Japan

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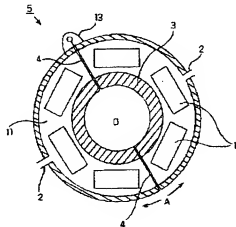
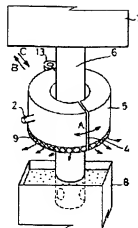
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APPLICANT : KOBE STEEL LTD;

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TITLE : ELECTROMAGNETIC STIRRER



ABSTRACT : PURPOSE: To obtain the stable operation and to prevent the deterioration of quality of a cast slab by providing an air cooling chamber in an electromagnetic stirrer and an electromagnetic stirring coil in the air-cooling chamber.

CONSTITUTION: After arranging an immersion nozzle 6 at a prescribed position of a mold 8, the electromagnetic stirrer 5 is opened and arranged around the non-immersion part of the immersion nozzle 6. The air-cooling chamber is provided in the electromagnetic stirrer 5, and the electromagnetic stirring coil 1 is provided in the air-cooling chamber. In a such a way, the energization is started to stir molten metal in the immersion nozzle 6. At the time of executing the electromagnetic stirring, the air 11 is injected from an air injecting hole 2 and the heated coil 1 is cooled with the air 11. The air 11 heated by cooling the coil 1 is ejected from a net part 9. After stopping the energization, the electromagnetic stirrer 5 is divided from parting parts 4. By this method, even in the case of leaking the molten steel from a tundish 7 and the immersion nozzle 6 during operating the electromagnetic stirring, immediately, the electromagnetic stirrer 5 is opened and moved.

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